

MTAS Operation and Maintenance Guide

MTAS

USER GUIDE

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1 Introduction

This document acts as an entry point to the operation and maintenance procedures within virtualized MTAS. It specifies the tasks required to operate the system and references the documents needed to complete those tasks.

The tasks are primarily configuration-oriented, but can be ones that must be executed as actions.

The tasks are grouped into functional areas where appropriate, and presented on a functional level rather than managed object level. This allows mapping of a functional need into a set of documents required to achieve that functional need. This document can therefore be considered a functional or task based index to the virtualized MTAS operation and maintenance documentation suite.

1.1 Prerequisites

This section describes the prerequisites, which must be fulfilled before using the procedures.

1.1.1 Tools

MTAS provides several Northbound Interfaces (NBIs) for operation and maintenance. The included NBIs are as follows:

- **NETCONF**

The NETCONF interface is a machine to machine interface for configuration management of MTAS using the NETCONF protocol. For details, refer to *Ericsson NETCONF Interface*.

- **ECLI**

The Ericsson Command-Line Interface (ECLI) is a terminal-based command-line interface that allows the user to monitor and manage the MTAS. The ECLI enables the user to interact with the Management Information Base (MIB) through common, generic-purpose commands. For details, refer to *Ericsson Command-Line Interface*.

- **SFTP**

The SSH File Transfer Protocol (SFTP) is an interface for uploading and downloading files.

- **SNMP**



The Simple Network Management Protocol (SNMP) is an interface for reporting alarms through SNMP notifications.

To access the NBIs, except SNMP, a user must be authenticated and authorized. All user information is stored in a centralized Lightweight Directory Access Protocol (LDAP) server that provides authentication for NBIs. After a user passes the authentication, one or more roles are assigned to this user.

The Role-Based Access Control (RBAC) and the Target-Based Access Control (TBAC) authorization are used to ascertain the user access rights. For details, refer to *Security Management for ECLI, NETCONF, and SFTP Users*.

1.2 Generic Note for Configuration

To avoid traffic loss in the services provided by the MTAS, it is mandatory to create backup after any change has been made in the MTAS configuration that is meant to be persistent.



2 Services

The MTAS can fulfill several different functional roles in a Multimedia Telephony solution, such as Multimedia Telephony (MMTel) Application Server (AS), Scheduled Conference Application Server (Conf AS), Service Centralization and Continuity Application Server (SCC-AS), and SIP Trunking application server (ST AS).

The following sections describe tasks that are configurable for the offered services per AS.

2.1 MMTel AS Services

2.1.1 Call Handling

Table 1 lists the configuration-related tasks for call handling.



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
MMTel administrative state	Basic voice and multimedia communication (MMTel)	<i>MTAS MMTel Management Guide</i>
Wholesale for MMTel		
MMTel terminated unregistered behavior		
Service data		
<ul style="list-style-type: none">• Operator subscription level service configuration (activating or deactivating the User Common Data subscription, maximum number of targets in the common target list / device list, allowing / disallowing the use of the common device list and the holiday list)		
<ul style="list-style-type: none">• Subscriber subscription level service configuration (common target list, common device list, UTC offset, start day of week, non-workday list, holiday list)		
<ul style="list-style-type: none">• MMTel no reply timer		
<ul style="list-style-type: none">• Charging		
<ul style="list-style-type: none">• Reject response configuration		
<ul style="list-style-type: none">• Terminal selection		
<ul style="list-style-type: none">• Early media announcement		
<ul style="list-style-type: none">• Calendar configuration and recommendation for summer/winter time		
<ul style="list-style-type: none">• Network or MTAS-provided local ring back		
Feature tag processing		
Prefix for voice and video calls (routing through BGCF ⁽¹⁾)		
Configuration and provisioning options for other services		
Media policy (block certain media streams in offered SDP) ⁽²⁾		



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
Control media streams of an established IP Multimedia session <ul style="list-style-type: none"> • Hold • Resume • Announcement • Bandwidth optimization 	Hold communication	<i>MTAS Hold Communication Management Guide</i>
Announcement configuration		
Wholesale for Hold		
Announcement	Communication Diversion (CDIV)	<i>MTAS Communication Diversion Management Guide</i>
Default voice mail address configuration		
Additional configuration (response values, timers, blacklist, and so on)		
DTM-related configuration		
Diversion for SSC		
CDIV administrative state		
Wholesale for CDIV		
Flexible Communication Distribution for CDIV		
Suppression by Flexible Service Format Selection (FSFS)		
Subscription rules (with examples)		
Diversion after BYE		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration • Subscriber subscription level service configuration 		



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
FCD administrative state	Flexible Communication Distribution (FCD)	<i>MTAS Flexible Communication Distribution Management Guide</i>
Announcement		
Auto-answer-avoidance announcement		
Distribution to primary devices of the user		
Prefixes to specify routing in the network for non-IMS targets		
Subscription rules (with examples)		
Communication Diversion interaction with FCD		
Suppression by FSFS		
Wholesale for FCD		
FCD to primary devices of the user		
<ul style="list-style-type: none"> • Node Level Configuration • Subscription Level Configuration 		
Caller preference filtering		
Service data		
<ul style="list-style-type: none"> • Operator subscription level service configuration (maximum number of targets in the target-list, primary number hosting IMS / non-IMS, maximum number of FCD rules, FCD Divert Primary service, allowing the subscriber to control length of the no reply timer, individual conditions and actions the subscribers can use, no reply timer, list of distribution targets, fixed-target attribute of the list of distribution targets, FCD rules) • Subscriber subscription level service configuration (divert-primary, no reply timer, target-list, rules) 		
FCD in case of “486 Busy Here” response		



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
CW administrative state	Communication Waiting (CW)	<i>MTAS Communication Waiting Management Guide</i>
Announcement		
Communication Diversion interaction with CW		
Alerting timer		
Operate mode		
Wholesale for CW		
CW indication		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration • Subscriber subscription level service configuration 		
CC administrative state	Communication Completion (CC)	<i>MTAS Communication Completion Management Guide</i>
Communication Diversion interaction with CC		
Initial Filter Criteria in HSS		
CC timers		
CC notifier-configured minimum		
Announcements		
Additional configuration <ul style="list-style-type: none"> • Invocation code • Suspend resume • Retain • Separate timers for busy subscriber and no reply 		
Interactive Voice Recognition (IVR) specific attributes		
Wholesale for CC		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration 		

Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
3PTY administrative state	Three Party Call (3PTY)	<i>MTAS Three Party Management Guide</i>
3PTY factory URI (subdomain-based PSI)		
Suppression by FSFS		
Wholesale for 3PTY		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration 		
Conference administrative state	Ad-hoc Conference	<i>MTAS Ad-hoc Conference Management Guide</i>
Answer confirmation		
AS chaining (maximum number of sessions)		
Ad-hoc Conference configuration <ul style="list-style-type: none"> Conference factory URI Username prefix part of the conference URI ISC port on the originating S-CSCF⁽³⁾ Conference notifications activated / deactivated Conference focus allowing invitation of Conference Participants using URI list Answer Confirmation announcement DTMF response in Answer Confirmation function 		
Wholesale for Ad-hoc Conference		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (maximum number of participants allowed, Answer Confirmation enabled / disabled) 		
ECT administrative state	Explicit Communication Transfer (ECT)	<i>MTAS Explicit Communication Transfer Management Guide</i>
Suppression by FSFS		
Wholesale for ECT		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration 		



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
STOD administrative state	Session Transfer to Own Device (STOD)	<i>MTAS Session Transfer to Own Device Management Guide</i>
Auto-Answer Avoidance		
Suppression by FSFS		
Subscription rules (with examples)		
Wholesale for STOD		
Session timer		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration (list of destination targets, fixed-target attributes of the list if destination targets, maximum number of targets in the target-list, STOD rules, maximum number of STOD rules) • Subscriber subscription level service configuration (target-list, target, rules) 		
OCT administrative state	Operator Controlled Transfer (OCT)	<i>MTAS Operator Controlled Transfer Management Guide</i>
OCT configuration <ul style="list-style-type: none"> • Phone numbers that can be assisted by the OCT • Operator-named announcements • Associated Number string in the Service-Specific-Data AVP for online charging 		
Announcement		



Table 1 Configuration-Related Tasks for Call Handling

Configuring	Function	Reference
Call Return administrative state	Call Return	<i>MTAS Call Return Management Guide</i>
Call Return configuration <ul style="list-style-type: none">• Saving last incoming call• Operator named announcements• Code to press to make a callback• Auto-callback timer• Time to wait parameters related to the code for making a callback		
Announcement		
Wholesale for Call Return		
Auto call-back		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration		
Hotline administrative state	Hotline	<i>MTAS Hotline Service Management Guide</i>
Announcements		
Wholesale for Hotline		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (Hotline service activation flag, unconditional Hotline activation flag, Hotline number for Unconditional Hotline, Instant Hotline activation flag, Hotline number for Instant Hotline, Delayed Hotline activation flags, Hotline number for Delayed Hotline, called number used for Delayed Hotline to override the service code CM parameter)• Subscriber subscription level service configuration (activating / deactivating the Hotline subscription, setting Hotline number (redirection URI) used for Delayed Hotline, setting called number used for Delayed Hotline to override the service code CM attribute)		

(1) Breakout Gateway Control Function (BGCF)

(2) Session Description Protocol (SDP)

(3) Serving Call Session Control Function (S-CSCF)



2.1.2 Communication Barring and Address Policing

Table 2 lists the configuration-related tasks for Communication Barring (CB) and Address Policing.

Table 2 Configuration-Related Tasks for Communication Barring and Address Policing

Configuring	Function	Reference
CB administrative state	Communication Barring	<i>MTAS Barring and Dial Plan Services Management Guide</i>
Barring rules		
User barring category (create, modify, delete)		
Operator barring category (create, modify, delete)		
Localness barring categories (modify)		
Barring program in single scheme (create, modify, delete)		
Barring program in multiple scheme (create, modify, delete)		
Global white list		
<ul style="list-style-type: none"> • Modify the list of numbers included in ICB⁽¹⁾ global white list • Modify the list of numbers excluded in ICB global white list • Modify the list of domains included in ICB global white list 		
Dynamic Black List		
Announcement		
SIP error response codes from MTAS configuration		
Cause value		
Wholesale for CB		
Subscription rules		
Service data		
<ul style="list-style-type: none"> • Operator subscription level service configuration (barring rules, barring programs, operator barring programs, Dynamic Black List) • Subscriber subscription level service configuration (barring rules, barring programs) 		



Table 2 Configuration-Related Tasks for Communication Barring and Address Policing

Configuring	Function	Reference
Dial Plan administrative state	Dial Plan	<i>MTAS Barring and Dial Plan Services Management Guide</i>
Dial Plan configuration		
<ul style="list-style-type: none">• Modify the list of numbers included in nodal Dial Plan• Modify the list of numbers excluded from nodal Dial Plan• Modify the list of domains included in nodal Dial Plan		
Per-VTP Dial Plan		
<ul style="list-style-type: none">• Create• Modify the list of numbers included in per-VTP Dial Plan• Modify the list of numbers excluded in per-VTP Dial Plan• Modify the list of domains included in per-VTP Dial Plan	Malicious Communication Identification (MCID)	<i>MTAS Malicious Communication Identification Management Guide</i>
MCID administrative state		
Reporting method (CDS / local storage)		
CDS configuration		
Closure of ACR files for local storage		
Disk full and disk not full percentage levels		
File transfer		
Access rights to log files and directories		
Announcement		
Wholesale for MCID		
Service data		
<ul style="list-style-type: none">• Operator subscription level service configuration (permanent mode / temporary mode)		



Table 2 Configuration-Related Tasks for Communication Barring and Address Policing

Configuring	Function	Reference
Long-distance Mobile Number Policing administrative state	Address Policing	<i>MTAS Address Policing Management Guide</i>
Additional configuration		
<ul style="list-style-type: none"> National Dialing Prefix for Address Policing Length of a fixed number for Long-distance Mobile Number Policing Length of a mobile number for Long-distance Mobile Number Policing Announcement to play if Long-distance Mobile Number Policing rejects a call 		
Wholesale for Long-distance Mobile Number Policing		

(1) *Incoming Communication Barring (ICB)*

2.1.3 Number Handling

Table 3 lists the configuration-related tasks for number handling.

Table 3 Configuration-Related Tasks for Number Handling

Configuring	Function	Reference
Abbreviated Dialing administrative state	Abbreviated Dialing	<i>MTAS Abbreviated Dialing Management Guide</i>
Supplementary Service Codes (SSC)		
Wholesale for Abbreviated Dialing		
Service data		
<ul style="list-style-type: none"> Operator subscription level service configuration (provisioning / withdrawing the Abbreviated Dialing subscription, managing list of Abbreviated numbers and the stored numbers) Subscriber subscription level service configuration (activating / deactivating the Abbreviated Dialing subscription) 		



Table 3 Configuration-Related Tasks for Number Handling

Configuring	Function	Reference
SND administrative state	Short Number Dialing (SND)	<i>MTAS Short Number Dialing Management Guide</i>
Announcement		
Number Normalization data		
SND domains		
Wholesale for SND		
Behavior of the Number Normalization Common Component <ul style="list-style-type: none">• Removal of Phone-Context in the URI• Which context used to normalize the URI	Number Normalization	<i>MTAS Number Normalization Management Guide</i>
Localness exemption		
DNM administrative state	Dialed Number Mapping (DNM)	<i>MTAS Dialed Number Mapping Management Guide</i>
Method to access the database configuration		
Additional configuration <ul style="list-style-type: none">• Generic announcement names• Areas forbidden for local format / NPA• National level call processing• NPAs in transition area,• Call accept / reject policy• Fix device support in DNM• Operator named announcement		
DNM location data <ul style="list-style-type: none">• Group-centric DNM location data		
DNM-specific number translation data <ul style="list-style-type: none">• Profile• Rules		



Table 3 Configuration-Related Tasks for Number Handling

Configuring	Function	Reference
Number Translation administrative state	Number Translation Service	<i>MTAS Number Translation Management Guide</i>
Wholesale for Number Translation		
Additional configuration (mechanism to load and cache the data)		
Number Translation profile		
Translation rules		
Activation mechanism		
Carrier Pre-Select administrative state	Carrier Pre-Select	<i>MTAS Carrier Select and Carrier Pre-Select Management Guide</i>
Call type		
Local operator call type and number		
Carrier operator call type and number		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration 		
Carrier Pre-Select Rn administrative state	Carrier Pre-Select Rn	<i>MTAS Carrier Select and Carrier Pre-Select Management Guide</i>
Carrier		
Test numbers		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration 		
Carrier Select administrative state	Carrier Select	<i>MTAS Carrier Select and Carrier Pre-Select Management Guide</i>
Announcement		
Carrier Select IMS Common Component data		
Number Analysis IMS Common Component data		
Service data <ul style="list-style-type: none"> • Operator subscription level service configuration 		

*Table 3 Configuration-Related Tasks for Number Handling*

Configuring	Function	Reference
Carrier Select Rn administrative state	Carrier Select Rn	<i>MTAS Carrier Select and Carrier Pre-Select Management Guide</i>
Carrier		
Carrier Select Codes		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration		

2.1.4 Identity Handling

Table 4 lists the configuration-related tasks for identity handling.



Table 4 Configuration-Related Tasks for Identity Handling

Configuring	Function	Reference
Identity Presentation administrative state	Identity Presentation	<i>MTAS Identity Presentation Management Guide</i>
DNS		
Additional configuration		
<ul style="list-style-type: none"> • Time-out for the query to the Calling Name Server • When to query to the Calling Name Server • Screening and denormalization of the From header • Copying of the Request URI to the To header 		
Wholesale for Identity Presentation		
CNIP administrative state		
OCNIP administrative state		
Multi-Subscriber Number (MSN) administrative state		
Reason for lack of caller identity		
OCNIP mode		
Use of From header		
Removal of Privacy header		
Service data		
<ul style="list-style-type: none"> • Operator subscription level service configuration (subscription options for OIP / OIR / TIP / TIR / CNIP / FIP / OCNIP) • Subscriber subscription level service configuration (user level configuration of OIP / OIR / TIP / TIR / CNIP / FIP) 		



Table 4 Configuration-Related Tasks for Identity Handling

Configuring	Function	Reference
Activation / deactivation / modification of CNIP service	Calling Name Identity Presentation (CNIP)	<i>MTAS Calling Name Identity Presentation Management Guide</i>
Modification of <ul style="list-style-type: none">• CNIP protocol• Calling Name Server address• CNIP time-out• Names of Cname Private headers• Default display name• Privacy display name• Query to the Calling Name Server with OIR override		
Calling Name Server redundancy (DNS-based redundancy for SIP and SOAP/HTTP protocols)		
IP protocol version of the SOAP interface		
Activation / deactivation / modification of OCNIP service	Originating Calling Name Identity Presentation (OCNIP)	<i>MTAS Originating Calling Name Identity Presentation Management Guide</i>

2.1.5 Charging

Table 5 lists the configuration-related tasks for charging.



Table 5 Configuration-Related Tasks for Charging

Configuring	Function	Reference
AoC administrative state Additional configuration <ul style="list-style-type: none"> • Time interval between AoC-During updates • Default address of the online charging • Secondary address of the online Charging Server • Unique identification of the application starting the request • Behavior if the MTAS cannot provide the cost and applicable tariff Wholesale for AoC Service data <ul style="list-style-type: none"> • Operator subscription level service configuration (activating / deactivating the AoC (AoC-S, AoC-D, AoC-E) subscription, control of the AoC service, setting the preferred currency of the subscribers) 	Advice of Charge (AoC)	<i>MTAS Advice of Charge Management Guide</i>
NP administrative state Additional configuration <ul style="list-style-type: none"> • Enabling NP • Disabling NP • NP lookup and conveying NP-related info to the charging system Wholesale for NP		



Table 5 Configuration-Related Tasks for Charging

Configuring	Function	Reference
Diameter stack <ul style="list-style-type: none">• Own node configuration• Neighbor node configuration• Realm routing table configuration• Charging application routing configuration	Charging	<i>MTAS Charging Management Guide</i>
Charging profile <ul style="list-style-type: none">• Creating / configuring / deleting• Presence of AVPs in ACR/CCR messages• Optional ACR and CCR event messages• Charging profile for SCC-AS		
Activating charging for a service		
Deactivating charging <ul style="list-style-type: none">• For all services• For a specific service• For services using a specific charging profile		
Deactivating charging destinations (starting / revoking)		
Default CDF address (adding / removing)		
CDS addresses (adding / removing)		
Charging attributes		
Communication details transfer attributes		
Ro announcement mapping (creating / deleting)		
Ro language mapping (creating / deleting)		



Table 5 Configuration-Related Tasks for Charging

Configuring	Function	Reference
JC administrative state	Japanese Charging (JC)	<i>MTAS Japanese Charging Management Guide</i>
Interconnection Charge Billing System (ICBS) database		
Wholesale for JC		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (provisioning the home location in user common data) 		
Enabling ACR Storage	Charging ACR Storage	<i>MTAS Charging ACR Storage Management Guide</i>
Defining closure of ACR files		
Defining disk full and disk not full percentage levels		
Access rights to log files and directories		

2.1.6 Call Admission Control

Table 6 lists the configuration-related tasks for Call Admission Control.

Table 6 Configuration-Related Tasks for Call Admission Control

Configuring	Function	Reference
UCAC administrative state	User Call Admission Control (UCAC)	<i>MTAS Call Admission Control Management Guide</i>
Suppression by FSFS		
Announcement		
Wholesale for UCAC		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating UCAC service) 		



Table 6 Configuration-Related Tasks for Call Admission Control

Configuring	Function	Reference
GCAC administrative state	Group Call Admission Control (GCAC)	<i>MTAS Call Admission Control Management Guide</i>
Suppression by FSFS		
GCAC Category		
<ul style="list-style-type: none"> Creating / modifying / deleting a Group Profile Category 		
GCAC Profile		
<ul style="list-style-type: none"> Creating / deleting a Group Profile 		
Connection allocation		
<ul style="list-style-type: none"> Creating / modifying / deleting a connection allocation 		
Resetting GCAC counts		
Initial Filter Criteria for subscribers with GCAC service configuration		
Announcement		
Additional configuration		
<ul style="list-style-type: none"> Counting sessions directly between 2 members of the same CAC group Counting sessions diverted by the served user 		
Wholesale for GCAC		
Service data		
<ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating GCAC service) Group and profile relationship, category and connection allocation 		

2.1.7 Multiple Numbers

Table 7 lists the configuration-related tasks for multiple numbers.



Table 7 Configuration-Related Tasks for Multiple Numbers

Configuring	Function	Reference
DR administrative state	Distinctive Ring (DR)	<i>MTAS Distinctive Ring Management Guide</i>
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (activating / deactivating DR service subscription)• Subscriber subscription level service configuration		

2.1.8 Interworking

Table 8 lists the configuration-related tasks for interworking.

Table 8 Configuration-Related Tasks for Interworking

Configuring	Function	Reference
GM administrative state	Gateway Model (GM)	<i>MTAS Gateway Model Management Guide</i>
GM mode		



Table 8 Configuration-Related Tasks for Interworking

Configuring	Function	Reference
FSFS administrative state	Flexible Service Format Selection (FSFS)	<i>MTAS Flexible Service Format Selection Management Guide</i>
Suppression of configurable services <ul style="list-style-type: none">• Communication Barring (CB)• Communication Diversion (CDIV)• Flexible Communication Distribution (FCD)• Customized Alerting Tones (CAT)• Call Admission Control (CAC)• Session Transfer to Own Device (STOD)• Explicit Communication Transfer (ECT)• 3PTY (Three-party)		
Additional configuration <ul style="list-style-type: none">• Session case where the pattern is applied• Headers in the incoming <code>INVITE</code> message where the pattern is applied• Regular expression used for matching one parameter in the incoming <code>INVITE</code> message• Indication of matched parameter removal from the header in the <code>INVITE</code> message after the match• Algorithm being used by the FSFS service to evaluate the header• FSFS service format to be used when there is a match• List of suppressed services• List of URI addresses dedicated for voicemails servers		
Wholesale for FSFS		
Video Fallback to Audio administrative state	Video Fallback to Audio	<i>MTAS Video Fallback to Audio Management Guide</i>
Q.850 cause code triggering fallback call		
Wholesale for Video Fallback to Audio		



2.1.9 Call Prioritization

Table 9 lists the configuration-related tasks for call prioritization.

Table 9 Configuration-Related Tasks for Call Prioritization

Configuring	Function	Reference
Priority Call administrative state	Priority Call	<i>MTAS Priority Call Management Guide</i>
Wholesale for Priority Call		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (allowing / disallowing subscriber to initiate Priority Call) 		
Priority Services administrative state	Priority Services	<i>MTAS Priority Services Management Guide</i>
Priority Call termination on low credit		
CPC administrative state	Calling Party Category (CPC)	<i>MTAS Calling Party Category Management Guide</i>
Wholesale for CPC		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating CPC service, assigning CPC values per subscriber) 		

2.1.10 Tone and Announcement Management

Table 10 lists the configuration-related tasks for tone and announcement.



Table 10 Configuration-Related Tasks for Tone and Announcement

Configuring	Function	Reference
NA administrative state	Network Announcement (NA)	<i>MTAS Network Announcement Management Guide</i>
Originating MTAS audio-video announcement code for a specific SIP error code		
Terminating MTAS audio-video announcement code for a specific SIP error code		
Audio announcement code for a specific SIP URI		
SIP error response codes from MTAS		
Q.850 cause value and corresponding cause code		
Wholesale for NA		
Announcement codes and announcement names for services <ul style="list-style-type: none"> • Call Admission Control • Call Return • Carrier Select • Communication Barring • Communication Completion • Communication Diversion • Communication Waiting • Flexible Communication Distribution • Generic Announcement • Hold Communication • Multimedia Telephony • Network Announcement • Parlay X • Short Number Dialing • Supplementary Service Codes 	Announcement	<i>MTAS Announcement Management Guide</i>



Table 10 Configuration-Related Tasks for Tone and Announcement

Configuring	Function	Reference
<p>Definitions</p> <ul style="list-style-type: none">• Audio announcement played• Audio-video announcement or video announcement played• Which audio-only announcement played• Which video-only announcement played• Audio component of an audio-video announcement• Video component of an audio-video announcement• Q.850 cause value	Generic Announcement	<i>MTAS Generic Announcement Management Guide</i>
Wholesale for Generic Announcement		



Table 10 Configuration-Related Tasks for Tone and Announcement

Configuring	Function	Reference
CAT administrative state	Customized Alerting Tones (CAT)	<i>MTAS Customized Alerting Tones Management Guide</i>
Suppression by FSFS		
Additional configuration for CAT <ul style="list-style-type: none">• CAT signals are started on 183 Session Progress• Timer for starting the CAT signal without SIP response messages• Black Hole IPv4 address (0.0.0.0) is used in the SDP offer• Maintaining single SIP dialog towards the caller when no-fork directive is set in the Request-Disposition header of the received INVITE• Timer for triggering ring tone generation• Enabling support of end-to-end negotiation of SIP Preconditions• SIP headers to be sent to CAT-S• Suppressing the early media from the called party• Suppressing CAT when the called user is roaming in CS		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (activating / deactivating CAT service subscription)		
External CAT-S <ul style="list-style-type: none">• Creating an additional media resource• Address of the additional media resource• Type of the additional external media resource• Enabling additional media resource		
Creating a CAT server and enabling the CAT service		



Table 10 Configuration-Related Tasks for Tone and Announcement

Configuring	Function	Reference
RBT administrative state	Ring Back Tone (RBT)	<i>MTAS Network Provided Ring Back Tone Management</i>
RBT announcements		
Early media suppression		
Suppressing RBT		
Wholesale for RBT		

2.1.11 Third Party Service Interaction

Table 11 lists the configuration-related tasks for third party service interaction.

Table 11 Configuration-Related Tasks for third Party Service Interaction

Configuring	Function	Reference
Call notification	Parlay X	<i>MTAS Parlay X Management Guide</i>
Third-party call		
Changing local port		
IP protocol version		
Circuit Switched Integration (CSI) and Northbound Call Control (NCC) administrative state	Parlay X in MMTel	<i>MTAS Parlay X in MMTel Management Guide</i>
Parlay X in MMTel administrative state		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating Parlay X in MMTel service subscription, DNS, northbound call control, Parlay X triggers) 		

**Table 11** Configuration-Related Tasks for third Party Service Interaction

Configuring	Function	Reference
Administrative states for GSM Compatible SSF	GSM Compatible Service Switching Function (SSF)	<i>MTAS CAPv2 Management Guide</i>
Circuit Switched Integration (CSI) <ul style="list-style-type: none">• Administrative state• Subsystem number MTAS uses in the SS7 network when MTAS has the role of an SSF• Global title MTAS is assigned in the SS7 network		
Northbound Call Control (NCC) <ul style="list-style-type: none">• Administrative state• URI path for the Playcol announcement files on the MRFP		
SS7 configuration		

2.1.12 Language

Table 12 lists the configuration-related tasks for languages.

Table 12 Configuration-Related Tasks for Languages

Configuring	Function	Reference
MLS administrative state	Multiple Languages (MLS)	<i>MTAS Multiple Languages Management Guide</i>
Announcement		
Segmented Announcements (both for Mp and Mr interfaces)		
Mp interface (embedded MRFC ⁽¹⁾), except Segmented Announcements		
Mr interface (External MRFC)		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (language-tag)		

(1) Media Resource Function Controller (MRFC)

2.1.13 Emergency Call Handling

Table 13 lists the configuration-related tasks for emergency call handling.



Table 13 Configuration-Related Tasks for Emergency Call Handling

Configuring	Function	Reference
Emergency Call charging profile configuration	Emergency Call Notification	<i>MTAS Emergency Call Notification Management Guide</i>

2.1.14 Closed User Group

Table 14 lists the configuration-related tasks for Closed User Group.

Table 14 Configuration-Related Tasks for Closed User Group

Configuring	Function	Reference
CUG administrative state	Closed User Group (CUG)	<i>MTAS Closed User Group Management Guide</i>
CUG reject announcement		
Wholesale for CUG		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration 		

2.1.15 Wholesale

Table 15 lists the configuration-related tasks for Wholesale.

*Table 15 Configuration-Related Tasks for Wholesale*

Configuring	Function	Reference
Wholesale administrative state	Wholesale	<i>MTAS Wholesale Support Management Guide</i>
Tables and activation for VTP-controlled dial plan		
<ul style="list-style-type: none">• Activation state (setting and monitoring)• Scheduling activation• Dropback attribute		
VTP-controlled dial plan		
<ul style="list-style-type: none">• Creating <i>MtasVtp</i>• Modifying list of numbers included in VTP• Modifying list of numbers excluded from VTP• Modifying list of domains included in VTP		
Announcement		

2.1.16 Supplementary Service Codes

Table 16 lists the configuration-related tasks for SSCs.



Table 16 Configuration-Related Tasks for Supplementary Service Codes

Configuring	Function	Reference
SSC codes administrative state	Supplementary Service Codes (SSC)	<i>MTAS Supplementary Service Codes Management Guide</i>
SSC attributes (modify)		
Announcement		
Additional configuration		
<ul style="list-style-type: none"> • Exact length of a PIN • Maximum length of the New Destination (ND) number • Announcements for supplementary service activation, deactivation, and PIN modification • Erasing service data during deactivation • Command syntaxes (separate or integrated) • Dynamic Black List update method • SSC service playing announcements on early media or on established sessions 		
Wholesale for SSC		
Communication Forwarding SSC Attributes		
Service data		
<ul style="list-style-type: none"> • Operator subscription level service configuration (activating / deactivating the SSC service subscription, if PIN required for the subscriber control procedures, initial PIN) 		
Service code command syntax attributes (with examples)		

*Table 16 Configuration-Related Tasks for Supplementary Service Codes*

Configuring	Function	Reference
GenSSC commands <ul style="list-style-type: none">• use of simple schema• composite configuration using task pattern• composite configuration including pre-processing logic and various use cases• composite configuration for MSN support• PIN employment	Generic Supplementary Service Codes (GSSC)	<i>MTAS Generic Supplementary Service Codes Management Guide</i>
Troubleshooting command configuration <ul style="list-style-type: none">• GenSSC adapter• GenSSC servlet		

2.2 SCC-AS Services

Table 17 lists the configuration-related tasks for SCC-AS services.

Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
SCC administrative state	IMS Centralized Services (ICS)	<i>MTAS IMS Centralized Services Management Guide</i>
Charging profile for the SCC-AS		
HSS ⁽¹⁾ deployment mode in SCC-AS		
Mix of VoLTE and 2G/3G		
Policy for Network Provided Location Information (NPLI) retrieval		
Caching of registered contacts information		



Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
GSM compatible SCF configuration <ul style="list-style-type: none"> • Enabling / disabling • SS7 with CAP 	Service Domain Selection (SDS)	<i>MTAS IMS Centralized Services Management Guide</i>
SDS administrative state		
Additional configuration <ul style="list-style-type: none"> • IMRN range, first and last number • Lifetime of an allocated IMRN • IMRN prefix to be added to called party for T-SDS • CAMEL SCF service keys supported by SCC-AS gsmSCF • CAP error handling policy in SCC-AS gsmSCF, to return CAP Continue or CAP error • Policy for selecting called party number in CAP InitialDP for O-SDS calledPartyNumber or calledPartyBCDNumber precedence • served HPLMN • International access prefix / national trunk prefix at served HPLMN 		

Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
<p>Conditional anchoring based on supported media call types</p> <ul style="list-style-type: none"> Enabling the check for media call List of media call types supported by SCC-AS gmsSCF Default video type 	Service Domain Selection (SDS)	<i>MTAS IMS Centralized Services Management Guide</i>
<p>Conditional anchoring based on roaming service profiles</p> <ul style="list-style-type: none"> Enabling the check for service profile MCC.MNC for HPLMN served by SCC-AS Mapping from SCF service key to service profile Service profile defining if anchoring is allowed Anchoring indication for a service profile Reference to a VPLMN whitelist for the service profile Whitelist name VPLMNs from which IMS anchoring is allowed for this whitelist 		
<p>Conditional anchoring based on local numbers and escape code</p> <ul style="list-style-type: none"> CC of served HPLMN International access prefix / national trunk prefix at served HPLMN List of local numbers at served HPLMN Escape code for the served HPLMN Escape code allowed when at home MCC.MNC for a VPLMN CC of a VPLMN International access prefix / national trunk prefix at a VPLMN List of local numbers at a VPLMN 		



Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
<p>T-ADS administrative state</p> <p>Additional configuration</p> <ul style="list-style-type: none"> • How long the last terminated VoLTE session details can be used • Timer to be used in the HSS query for T-ADS information • Prefix to be added to called party in case of call breakout to CS • Prefix to be added to calling party in case of call breakout to CS • Timer to be used when waiting for response (18x) from VoLTE UE on PS • Routing number for the Request-URI rn parameter when breaking out a call to CS • SIP error codes / error code ranges which cause T-ADS to execute a CS breakout when call delivered to PS contact fails • SIP error codes / error code ranges / optionally SIP cause codes, which cause T-ADS service to execute a CS breakout when call delivered to CS contact fails • Selection policy to retry with CS breakout when call delivered to PS/CS contact fails or not • Policy when breakout to CS is selected, CSRN based on prefix or on the MSRN as obtained from HSS/HLR • Indication to suppress tone generation to be added in the INVITE to MSC when the served user is not roaming • Enabling / disabling Wi-Fi calling support 	Terminating Access Domain Selection (T-ADS)	<i>MTAS IMS Centralized Services Management Guide</i>



Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
CSI administrative state	Terminating Access Domain Selection (T-ADS)	<i>MTAS IMS Centralized Services Management Guide</i>
GMSC role		
<ul style="list-style-type: none">• Subsystem number for SCC-AS in the SS7 network• Global Title Indicator (GTI) in MAP messages• Translation Type (TT)• Nature of Address Indicator (NAI)• Numbering Plan (NP)• Encoding Scheme (ES)• Signaling network standard (ITU / ANSI)		
SS7 with ETSI MAP		



Table 17 Configuration-Related Tasks for SCC-AS Services

Configuring	Function	Reference
SRVCC administrative state Additional configuration <ul style="list-style-type: none"> • Session Transfer Number for SRVCC (STN-SR) value assigned to the SCC-AS • Access Transfer Update Session Transfer Identification (ATU-STI) for SRVCC value assigned to the SCC-AS • Timer used to delay the BYE request containing Reason header with protocol "SIP" and reason parameter "cause" with value "503" (3GPP TS 24.237) • Timer used to delay the termination of the source access leg in case of successful access transfer using SRVCC procedures (3GPP TS 24.237) • Support for SRVCC of calls in alerting state in MTAS • Timer used to delay the CANCEL request from PS domain containing Reason header with protocol "SIP" and reason parameter "cause" with value "503" (3GPP TS 24.237) • Mode of media check during R10 SRVCC access transfer 	Single Radio Voice Call Continuity (SRVCC)	<i>MTAS SRVCC Management Guide</i>

(1) Home Subscriber Server (HSS)

2.3 Conference AS Services

Table 18 lists the configuration-related tasks for Conference AS services.



Table 18 Configuration-Related Tasks for Conference AS Services

Configuring	Function	Reference
Conference administrative state	Scheduled Conferencing	<i>MTAS Scheduled Conference Management Guide</i>
Additional configuration <ul style="list-style-type: none">• Scheduled Conference domain• Username prefix part of the conference URI• Subdomain part of the conference URI• Conference notifications activated / deactivated• Charging profile that is applicable for the Scheduled Conferencing AS sessions• Video profile used in the dial-out offer for video stream in case of Scheduled Conference• Enabling the In Conference Control feature		
Cached Scheduled Conference data management in MTAS		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (activating / deactivating the Scheduled Conference service subscription, Scheduled Conference Service Number, HSS-related configuration)		

2.4 ST AS Services

Table 19 lists the configuration-related tasks for SIP Trunking application server (ST AS) services.



Table 19 Configuration-Related Tasks for ST AS Services

Configuring	Function	Reference
ST CAC administrative state	ST Call Admission Control (ST CAC)	<i>ST AS Call Admission Control Management Guide</i>
ST CAC counts reset (per PBX)		
Announcement		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating the ST CAC service subscription for the PBX, setting CAC limits) 		
ST Carrier Select Rn administrative state	ST Carrier Select Rn	<i>ST AS Carrier Select Rn and Carrier Pre-Select Rn Management Guide</i>
ST carrier selection reason codes (Q.850 reason code for a congestion situation)		
ST Carrier Select Rn Carrier Access Code		
ST Carrier Select Rn Carrier Select Code		
ST Carrier Select Rn carrier identity		
ST Carrier Select Rn carrier name		
ST Carrier Rn		
ST Carrier Rn domain		
ST Carrier Rn disallowed destinations		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating ST Carrier Select Rn service) 		
ST Carrier Pre-Select Rn administrative state	ST Carrier Pre-Select Rn	<i>ST AS Carrier Select Rn and Carrier Pre-Select Rn Management Guide</i>
ST Carrier Pre-Select test number for remote preselection		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating ST Carrier Pre-Select Rn service) 		



Table 19 Configuration-Related Tasks for ST AS Services

Configuring	Function	Reference
ST CB administrative state	ST Communication Barring (ST CB)	<i>ST AS Communication Barring Service Management Guide</i>
ACR display name evaluation		
Operator barring category (create, modify, delete)		
Localness barring categories (modify)		
Global white list		
<ul style="list-style-type: none">• Modify list of numbers included in ICB global white list• Modify list of numbers excluded in ICB global white list• Modify list of domains included in ICB global white list		
Generic announcement name		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (barring rules, operator barring programs)		
ST CDIV administrative state	ST Communication Diversion (ST CDIV)	<i>ST AS Communication Diversion Management Guide</i>
Announcement		
Additional configuration <ul style="list-style-type: none">• ST CDIV service is not reachable when any of the response codes are received• ST CDIV service is not reachable when the timer expires• Global Communication Forwarding blacklist for the MTAS• Maximum number of times the same communication is allowed to be forwarded• INVITE method response 302 causes a redirect generated by the ST AS, or if the 302 is to be passed on to the UA		
Service data <ul style="list-style-type: none">• Operator subscription level service configuration (activating / deactivating ST CDIV service subscription for the PBX)		



Table 19 Configuration-Related Tasks for ST AS Services

Configuring	Function	Reference
ST MCID administrative state	ST Malicious Communication Identification (ST MCID)	<i>ST AS Malicious Communication Identity Service Management Guide</i>
Reporting method		
Communication Details Server (CDS)		
Closure of ACR files for local storage definition		
Service data <ul style="list-style-type: none"> Operator subscription level service configuration (activating / deactivating ST MCID service subscription for the PBX, list of PBX extension numbers triggering the service) 		
Contexts for the dialed numbers <ul style="list-style-type: none"> Phone error correction context Profile context Domain name context Global phone context 	ST Number Normalization	<i>ST AS Number Normalization Management Guide</i>
Normalization data <ul style="list-style-type: none"> Profile (profile context, phone error context) 		
Algorithm data <ul style="list-style-type: none"> Substitution regular expressions OSN numbers NSN numbers 		

**Table 19** Configuration-Related Tasks for ST AS Services

Configuring	Function	Reference
Identity Presentation administrative state	ST Identity Presentation	<i>ST AS Identity Presentation Service Management Guide</i>
Additional configuration		
<ul style="list-style-type: none">• Enabling / disabling screening of the From header• Enabling / disabling denormalization of the From header• Enabling / disabling copying of the Request URI to the To header		
Reason for lack of caller identity		
Service data		
<ul style="list-style-type: none">• Operator subscription level service configuration (subscription options for OIP / OIR)• User subscription level service configuration (user level configuration options for OIP / OIR)		

2.5 Co-Location of AS Roles

Table 20 lists the configuration-related tasks for Co-location of AS roles.

Table 20 Configuration-Related Tasks for Co-location of AS Roles

Configuring	Function	Reference
Node level functions	Co-location of AS roles	<i>Co-Location of AS Roles in MTAS</i>
AS role-specific functions		
Service data		
<ul style="list-style-type: none">• Operator subscription level service configuration• User subscription level service configuration		

2.6 XML Document Management Server

Table 21 lists the configuration-related tasks for the XML Document Management Server (XDMS).



Table 21 Configuration-Related Tasks for the XML Document Management Server

Configuring	Function	Reference
Diameter stack for XDMS	XML Document Management Server (XDMS)	<i>MTAS XDMS Management Guide</i>
Sh interface		
Optional XDMS function parameters		
Access of Ut interface <ul style="list-style-type: none"> • Administrative state • Reading, modifying and deleting its own MTAS service-specific provisioning data for MTAS subscriber 		
Access of CAI3G interface <ul style="list-style-type: none"> • Administrative state • Operator managing subscriber data in an encrypted and authenticated way 		
CAI3G interface <ul style="list-style-type: none"> • MTAS XDMS Keystore modifications (create / delete CAI3G certificate, import trusted certificate, list stored certificates) • Applying the Modified MTAS XDMS Keystore • CAI3G logging 		
Access of CCMP interface		





3 Quality of Service

Table 22 lists the configuration-related tasks for Quality of Service (QoS) assurance.

Table 22 Configuration-Related tasks for QoS Assurance

Configuring	Function	Reference
Differentiated Services Code Point (DSCP) marking value in MTAS	Differentiated Services	<i>MTAS External Network Configuration</i>





4 Data Collection

The data collection procedures instruct which troubleshooting data to collect that can be enclosed in Customer Service Requests (CSRs) or Trouble Reports (TRs), if a problem is experienced with the MTAS.

Table 23 lists the tasks related to data collection.

Table 23 Data Collection Tasks

Task	Function	Reference
Perform data collection	Data Collection	<i>Data Collection Guideline for MTAS</i>





5 Health Check

Health check means checking and monitoring the current state and health of the system, and searching for irregularities and deviations. During this procedure, MTAS health information is collected. The administrator can then decide if more actions are needed, or if a software or hardware configuration change is needed.

Table 24 lists the tasks related to health check.

Table 24 Health Check Tasks

Task	Function	Reference
Perform health check	Health Check	<i>MTAS Health Check</i>





6 Fault Management

Table 25 lists the various tasks for fault management.

Table 25 Fault Management Tasks

Task	Function	Reference
Configure SNMP targets or an SNMP view	SNMP configuration in Alarm handling	Section <i>SNMP Configuration</i> in <i>Fault Management</i>
Configure alarm severity	Alarm handling	Section <i>Alarm Configuration</i> in <i>Fault Management</i>
Get the active alarm list	Alarm handling	Section <i>Alarm Configuration</i> in <i>Fault Management</i> <i>MTAS Alarm list</i>
Change the heartbeat	Alarm handling	Section <i>Alarm Configuration</i> in <i>Fault Management</i>





7 File Management

Table 26 lists the various tasks for file management.

Table 26 File Management Tasks

Task	Function	Reference
Access to a logical file system through the MOM, based on security rules	File management	Section <i>Types of Operation</i> in <i>File Management</i>
Access to a logical file system over SFTP, based on security rules	File management	Section <i>Types of Operation</i> in <i>File Management</i>
Definition, modification, and deletion of preventive maintenance file group policies	File management	Section <i>Types of Operation</i> in <i>File Management</i>
Collect alarm logs	Alarm log handling	Section <i>File Management</i> in <i>Fault Management</i> <i>Fetch File in Logical File System</i>





8 Performance Management

Table 27 lists the various tasks for performance management.

Table 27 Performance Management Tasks

Task	Function	Reference
List measurement types, PM groups, and PM jobs	Performance management	Section <i>Types of Operation</i> in <i>Performance Management</i>
Create, start, stop, and delete measurement collection jobs	Performance management	Section <i>Types of Operation</i> in <i>Performance Management</i>
Create, start, stop, and delete threshold monitoring jobs	Performance management	Section <i>Types of Operation</i> in <i>Performance Management</i>





9 OAM Security Management

Table 28 lists the various tasks for the NBI users in the Operations, Administration, and Maintenance (OAM) security management area.

Table 28 OAM Security Management Tasks

Task	Function	Reference
View LDAP configuration	LDAP Authentication in Security management	Section <i>LDAP Authentication in Security Management for ECLI, NETCONF, and SFTP Users</i>
Unlock/lock LDAP authentication method	LDAP Authentication in Security management	Section <i>LDAP Authentication in Security Management for ECLI, NETCONF, and SFTP Users</i>
Change bind name and password for LDAP authentication	LDAP Authentication in Security management	Section <i>LDAP Authentication in Security Management for ECLI, NETCONF, and SFTP Users</i>
Change certificate settings for LDAP TLS	LDAP Authentication in Security management	Section <i>LDAP Authentication in Security Management for ECLI, NETCONF, and SFTP Users</i>
Change Target-Based Access Control (TBAC)	LDAP Authentication in Security management	Section <i>LDAP Authentication in Security Management for ECLI, NETCONF, and SFTP Users</i>
View roles and rules	Local Authorization in Security management	Section <i>Local Authorization in Security Management for ECLI, NETCONF, and SFTP Users</i>
Lock/unlock local authorization method	Local Authorization in Security management	Section <i>Local Authorization in Security Management for ECLI, NETCONF, and SFTP Users</i>



Table 28 OAM Security Management Tasks

Task	Function	Reference
Create, change, and delete custom roles and custom rules	Local Authorization in Security management	Section <i>Local Authorization</i> in <i>Security Management for ECLI, NETCONF, and SFTP Users</i>
Understand MTAS-specific roles and rules	Local Authorization in Security management	Section <i>MTAS Roles and Rules</i> in <i>Security Management for ECLI, NETCONF, and SFTP Users</i>



10 Software Management

Table 29 lists the various tasks for software management.

Table 29 Software Management Tasks

Task	Function	Reference
Prepare an Upgrade Package	Software upgrade in software management	Section <i>Software Upgrade</i> in <i>Software Management</i>
Upgrade using one-step activation	Software upgrade in software management	Section <i>Software Upgrade</i> in <i>Software Management</i>
Upgrade using step-by-step activation	Software upgrade in software management	Section <i>Software Upgrade</i> in <i>Software Management</i>
Cancel an upgrade operation	Software upgrade in software management	Section <i>Software Upgrade</i> in <i>Software Management</i>
Delete an Upgrade Package	Software upgrade in software management	Section <i>Software Upgrade</i> in <i>Software Management</i>
Delete an inactive software version	Software removal in software management	Section <i>Software Removal</i> in <i>Software Management</i>
View software information	Software Inventory Management	Section <i>Types of Operation</i> in <i>Software Inventory Management</i>





11 System Management

Table 30 lists the various tasks for system management.

Table 30 System Management Tasks

Task	Function	Reference
Address Managed Element	System management	Section <i>Address Managed Element</i> in <i>System Management</i>
Identify DN Prefix	System management	Section <i>Identify DN Prefix</i> in <i>System Management</i>
Identify Managed Element	System management	Section <i>Identify Managed Element</i> in <i>System Management</i>
Identify Managed Element Location	System management	Section <i>Identify Managed Element Location</i> in <i>System Management</i>
List Supported XML Model Files	System management	Section <i>Manage XML Model Files</i> in <i>System Management</i>
Push of XML Model Files to External System	System management	Section <i>Manage XML Model Files</i> in <i>System Management</i>





12 System Backup and Restore

Table 31 lists the various tasks for backup and restore management.

Table 31 Backup and Restore Tasks

Task	Function	Reference
Create Backup Restore Backup Delete Backup Cancel Backup and Restore Operation List Backups View Progress Report	Backup and restore management	Section <i>Basic Backup Operations</i> in <i>System Backup and Restore</i>
Schedule Single Backup Schedule Backups Based on Calendar Event Schedule Backups Based on Periodic Event	Backup and restore management	Section <i>Schedule Backups</i> in <i>System Backup and Restore</i>
Change Prefix for Scheduled Backup Name Delete Scheduled Event Set Maximum Number of Scheduled Backups Lock Backup Scheduler Unlock Backup Scheduler	Backup and restore management	Section <i>Manage Scheduled Backups</i> in <i>System Backup and Restore</i>
Change Maximum Number of Manual Backups Enable Automatic Deletion of Manual Backups Disable Automatic Deletion of Manual Backups	Backup and restore management	Section <i>Manage Manual Backups</i> in <i>System Backup and Restore</i>

*Table 31 Backup and Restore Tasks*

Task	Function	Reference
Export Backup Import Backup Change Prefix for Exported Backup Names	Backup and restore management	Section <i>Import and Export Backups</i> in <i>System Backup and Restore</i>